

From: [Mel Hauptman](#)
To: [Angela Carpenter](#); [Michael Sivak](#)
Subject: Fw: ATSDR Letter Health Consultation for Cabo Rojo
Date: 03/06/2012 02:36 PM
Attachments: [Cabo Rojo vapor intrusion results.pptx](#)

----- Forwarded by Mel Hauptman/R2/USEPA/US on 03/06/2012 02:36 PM -----

From: Charles Nace/R2/USEPA/US
To: Denise Zeno/R2/USEPA/US@EPA
Cc: Arlene Anderson/R2/USEPA/US@EPA, Jeff Catanzarita/ERT/R2/USEPA/US@EPA, Nick Magriples/R2/USEPA/US@EPA, Rebecca Ofrane/R2/USEPA/US@EPA, Michael Moltzen/R2/USEPA/US@EPA, Mel Hauptman/R2/USEPA/US@EPA
Date: 03/06/2012 12:09 PM
Subject: Re: Fw: ATSDR Letter Health Consultation for Cabo Rojo

Denise,

I have finished with my initial assessment of the data. Based on the ATSDR letter, the primary concern was the potential for elevated PCE, TCE and DCE in indoor air in two buildings due to high concentrations of these compounds in the subslab. The indoor air of the two buildings was sampled and the following is a summary of the results.

Building S2 - This building had elevated concentrations of PCE and TCE in the subslab during the initial sampling round. The indoor air results from this building indicate that PCE, TCE, and DCE were all below the detection limits. This suggests that either the subslab is in good condition and there is not any vapor intrusion or that the ventilation in the building is adequate to prevent the buildup of VOCs in the building (or some combination of the two). The ATSDR letter suggested additional follow-up sampling during a different season. This would be a prudent measure to pursue.

Building EQP - This building had elevated concentrations of PCE, TCE, and DCE in the subslab during the initial sampling round. The indoor air results from this building indicate that TCE and DCE were all below the detection limits. PCE was detected in six locations (EQP-IA1, EQP-IA2, EQP-IA3, EQP-IA6, EQP-IA7, and EQP-IA8) of the nine sampled locations and in one of the ambient samples (EQP-AMB3). All of the detected concentrations were above the ATSDR screening value of 0.2 ug/m³, but below their chronic value of 300 ug/m³. EPA also has indoor air screening values of 9.4 ug/m³, which represents a 10⁻⁶ cancer risk, and 940 ug/m³, which represents a 10⁻⁴ cancer risk. In addition, we have a non-cancer screening value of 41 ug/m³. Three of the samples exceeded the EPA 10⁻⁶ screening value and none of the samples exceeded the 10⁻⁴ screening value (see attached file). One of the samples EQP-IA8 exceeds the non-cancer screening value of 41 ug/m³ (47.5 ug/m³). There were several other compounds that exceeded screening values: 1,4-dichlorobenzene, benzene, carbon tetrachloride, chloroform, ethylbenzene, and methylene chloride. Of these compounds only 1,2,4-trimethylbenzene, chloroform and methylene chloride

exceeded a hazard index of 1 or the 10-4 screening value. I only had subslab results for PCE, TCE, and DCE, so I was unable to determine if the other compounds that were detected are site-related or if they are associated with an indoor source.

Conclusion - Based on the evaluation of the preliminary data, it appears that the vapor intrusion pathway may be complete, and that the concentration of PCE entering the building is at a level that may require an action. Most of the indoor air concentrations were either non-detect or within the acceptable cancer range, although one sample was marginally above the acceptable non-cancer value. At a minimum, the ventilation in the building should be increased and additional sampling should occur. It is recommended that this data be shared with Angela Carpenter and Michael Sivak so that they are aware of the situation and so that they can help make a decision that is consistent with other sites in the region.

Please let me know if you have any questions or need additional information. I can be reached at 631.424.2708 today and will be in the office tomorrow.

Chuck

-----Denise Zeno/R2/USEPA/US wrote: -----

To: Charles Nace/R2/USEPA/US@EPA

From: Denise Zeno/R2/USEPA/US

Date: 03/05/2012 04:40PM

Cc: Arlene Anderson/R2/USEPA/US@EPA, Nick Magriples/R2/USEPA/US@EPA, Jeff Catanzarita/ERT/R2/USEPA/US@EPA, Rebecca Ofrane/R2/USEPA/US@EPA

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Chuck,

here is the health consultation. I'll be forwarding the sampling location map later on tonight or tomorrow morning.

I have cc'ed Becky, the OSCs and ERT in this email so you can send us feedback in one email.

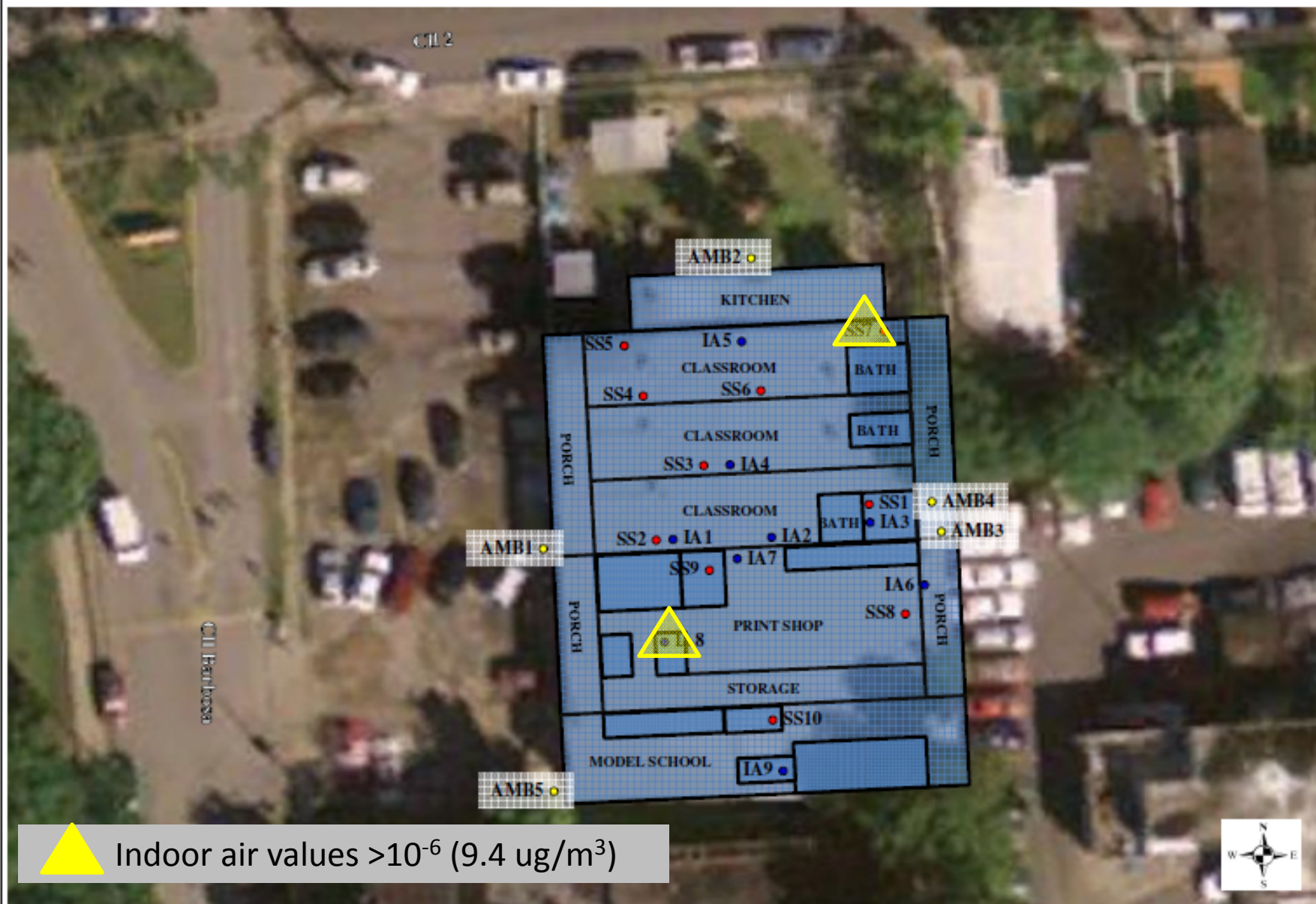
thanks for looking at the pre-prelim data .

(See attached file: Cabo Rojo GW Contamination letter 2-24-2012.docx)

[attachment "Cabo Rojo GW Contamination letter 2-24-2012.docx" removed by

Charles Nace/R2/USEPA/US]



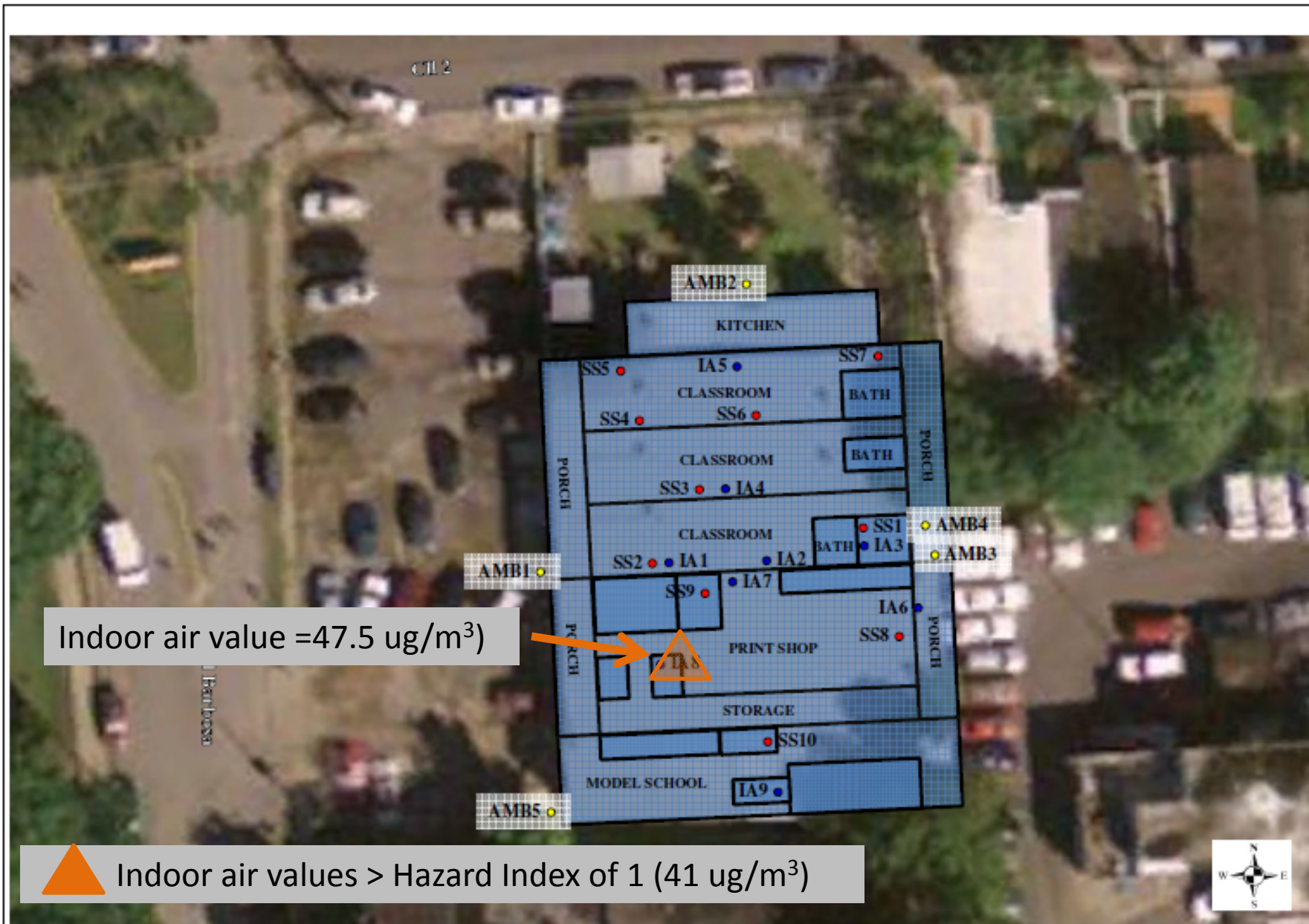


LEGEND

- Sub-slab soil gas sample
- Indoor air sample
- Ambient air sample

U.S. EPA Environmental Response Team
 Scientific Engineering Response and Analytical Services
 Contract No. EP-W-09-031
 Work Assignment No. SERAS-130

FIGURE 1
EQP BUILDING SAMPLING LOCATIONS
CABO ROJO SITE
CABO ROJO, PR



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